

# Spencer Eanes

SpencerEanes.org

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## EDUCATION

### ST. OLAF COLLEGE

NORTHFIELD, MN

Graduation: May 2020

#### DEGREES

B.A. Mathematics: 3.92/4.0

B.A. Computer Science: 3.84/4.0

Concen. Statistics: 3.65/4.0

#### OVERALL

Cum. GPA: 3.85 / 4.0

Dean's List: F'16, S'17, F'17, S'18

### EVANSTON TWP. HS

Grad. May 2016 | Evanston, IL.

Graduated with High Distinction

## COURSEWORK

#### COMPLETED

Algorithms & Data Structures

Statistical Modeling

Data Management

Linear Algebra

Modern Computational Math

Differential Equations

Software Design + Lab

Mobile Computing Apps

Robotics

Abstract Algebra

Calculus I-III

Statistics for Science

#### IN PROGRESS

Computational Geometry

Theory of Computation

Algrm's for Decision Making

## SKILLS

### PROGRAMMING

Proficient Languages:

C++ • R • Python

Mathematica • SQL

Proficient Tools:

Bash • Git • ROS

### OPERATING SYSTEMS

Linux (CentOS, Ubuntu)

Windows (XP, 7, 8, 10)

Android (6 - 9)

## EXPERIENCE

### NATL. CENTER FOR EDUCATION STATISTICS | JPSM JUNIOR FELLOW

May 2018 - Aug 2018 | Washington, District of Columbia

- Selected by University of Maryland Joint Program in Survey Methodology for Junior Fellow summer position, interning at NCES.
- Worked on data analysis using 2015-16 School Survey on Crime and Safety dataset, generating summary reports using R, publication in process.

### ST. OLAF COMPUTER SCIENCE DEPT. | SOFTWARE DESIGN TA

Feb 2018 - May 2018 | Northfield, MN

- Attending a weekly lab to answer questions and facilitate student problem-solving.
- Grade labs submitted through GitLab.
- Created bash script toolkit to automate grading process.

### ST. OLAF CENTER FOR UNDERGRADUATE RESEARCH | RESEARCHER

May 2017 - Aug 2017 | Northfield, MN

- 10-week team oriented research experience with culminating presentation.
- Investigated the use of lie symmetries in the invariantization of numerical schemes.
- Compared the accuracy of invariant vs. non-invariant numerical schemes applied to differential equations. Paper in review for publication.

## PROJECTS

### COMAP ICM 2018 PROBLEM D | TEAM MEMBER

February 2018 | Northfield, MN

Developed a mathematical model to determine the optimal placement of electric vehicle charging stations, and created a proposal to convert an entire nation from gas to electric vehicles.

### SUMMER RESEARCH PRESENTATIONS | RESEARCH CO-PRESENTER

August 2017, October 2017 | Northfield, MN

Worked with Shane Koseriadzki and Professor Joe Benson to create a poster and presentation materials as well as academic paper based on summer research, presented at the end of summer research colloquium in early August, and again at the Northfield Undergraduate Research Colloquium in early October. The material was presented at the Midstates Math Consortium at the University of Chicago.

## AWARDS

2018	International	CoMAP ICM Competitor, Honorable Mention
2017	National	USCLAP Introductory Statistics First Prize Winner
2016	Institutional	St. Olaf Buntrock Scholar, Highest Academic Scholarship
2016	National	National Merit Commended Scholar
2015	International	CoMAP HiMCM Competitor, Honorable Mention
2014	International	CoMAP HiMCM Competitor, Meritorious Winner

## EXTRACURRICULARS

Fall 2018	Study Abroad at University of Aberdeen, Scotland
Sep - Dec 2017	Resilience, Empathy, Assertiveness Listening Training Member
Fall 2017	St. Olaf Academic Support Center Tutor
Fall 2016 - Spring 2018	St. Olaf Stewardship Office Assistant
Fall 2016 - Spring 2018	Men's Club Volleyball